



varian data machines

620/f SYSTEMS COMPUTER

PRICE SCHEDULE

EFFECTIVE May 1, 1970



| MODEL NO. | DESCRIPTION | PREREQUISITES* | PRICE |
|---------------------------------------|---|------------------------------------|----------|
| SYSTEMS COMPUTER | | | |
| 620/f-000 | Systems Computer with 4096 words of Read/Write Core Memory, 750 nanoseconds cycle time, Console, Programmed I/O Party Line, Direct Memory Access, Power Supply and Priority Interrupt | None | \$10,500 |
| 620/f-001 | Systems Computer with 8192 words of Read/Write Core Memory, 750 nanoseconds cycle time, Console, Programmed I/O Party Line, Direct Memory Access, Power Supply and Priority Interrupt | None | \$13,000 |
| 620/f-002 | Systems Computer with 12,288 words of Read/Write Core Memory, 750 nanoseconds cycle time, Console, Programmed I/O Party Line, Direct Memory Access, Power Supply and Priority Interrupt | None | \$17,500 |
| 620/f-003 | Systems Computer with 16,384 words of Read/Write Core Memory, 750 nanoseconds cycle time, Console, Programmed I/O Party Line, Direct Memory Access, Power Supply and Priority Interrupt | None | \$20,000 |
| 620/f-004 | Systems Computer with 20,480 words of Read/Write Core Memory, 750 nanoseconds cycle time, Console, Programmed I/O Party Line, Direct Access, Power Supply and Priority Interrupt | None | \$23,500 |
| 620/f-005 | Systems Computer with 24,576 words of Read/Write Core Memory, 750 nanoseconds cycle time, Console, Programmed I/O Party Line, Direct Memory Access, Power Supply and Priority Interrupt | None | \$26,000 |
| 620/f-006 | Systems Computer with 28,672 words of Read/Write Core Memory, 750 nanoseconds cycle time, Console, Programmed I/O Party Line, Direct Memory Access, Power Supply and Priority Interrupt | None | \$29,500 |
| 620/f-007 | Systems Computer with 32,768 words of Read/Write Core Memory, 750 nanoseconds cycle time, Console, Programmed I/O Party Line, Direct Memory Access, Power Supply and Priority Interrupt | None | \$32,000 |
| EXPANSION & MEMORY OPTIONS | | | |
| 620/f-010 | Expansion Chassis I, for up to 8192 words of additional Memory and 6 controller cards | 620/f-00X | \$ 1,000 |
| 620/f-011 | Expansion Chassis II, for up to 16,384 words of additional Memory and 2 controller cards | 620/f-00X | \$ 1,000 |
| 620/f-012 | Expansion Chassis III, capacity for 24 controller cards | 620/f-00X | \$ 1,500 |
| 620/f-020 | 4096 words of Read/Write Core Memory | 620/f-00X or -010 or -011 | \$ 4,500 |
| 620/f-021 | 8192 words of Read/Write Core Memory | 620/f-010 or -011 | \$ 7,000 |
| 620/f-022 | 1024 words of Read-Only Memory | 620/f-00X or -010 or -011 | \$ 1,500 |
| 620/f-023 | 2048 words of Read-Only Memory | 620/f-00X or -010 or -011 | \$ 2,000 |
| 620/f-024 | 4096 words of Read-Only Memory | 620/f-00X or -010 or -011 | \$ 2,500 |
| 620/f-95-5 | Expansion Power Supply | 620/f-01X | \$ 500 |
| MAINFRAME OPTIONS | | | |
| 620/f-05 | Memory Protect | 620/f-00X | \$ 1,200 |
| 620/f-06 | ASR-33 (first) & Controller | 620/f-00X | \$ 1,800 |
| 620/f-07 | KSR-35 (first) & Controller | 620/f-00X | \$ 3,000 |
| 620/f-08 | ASR-35 (first) & Controller | 620/f-00X | \$ 4,800 |
| 620/f-10 | Optional Instruction Set, includes Hardware Multiply/Divide and additional instructions | 620/f-00X | \$ 1,500 |
| 620/f-12 | Priority Memory Access | 620/f-00X | \$ 1,000 |
| 620/f-13 | Real Time Clock | 620/f-00X | \$ 500 |
| 620/f-14 | Power Failure/Restart | 620/f-00X | \$ 500 |
| 620/f-15 | Automatic Bootstrap Loader | 620/f-00X | \$ 300 |
| 620/f-16 | Priority Interrupts, 8 multilevel | 620/f-00X or -01X | \$ 500 |
| CARD EQUIPMENT | | | |
| 620/f-22 | Card Reader and Controller, 1,000 cards per minute | 620/f-00X or 620/f-01X, 620/f-95-5 | \$10,500 |
| 620/f-23 | Card Reader and Controller, 400 cards per minute | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 4,000 |
| 620/f-26 | Card Punch and Controller, 200 cards per minute | 620/f-00X or 620/f-01X, 620/f-95-5 | \$25,000 |
| 620/f-26A | Card Punch and Controller, 300 cards per minute | 620/f-00X or 620/f-01X, 620/f-95-5 | \$27,500 |

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| MODEL NO. | DESCRIPTION | PREREQUISITES* | PRICE |
|----------------------|--|------------------------------------|----------|
| MAGNETIC TAPE | | | |
| 620/f-30 | Magnetic Tape Unit and Controller, 9-track, 800 bpi, 25 ips, single density, includes control for up to four (4) 9-track magnetic tape units | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 9,900 |
| 620/f-300 | Magnetic Tape Unit Slave, 9-track, 800 bpi, 25 ips, single density | 620/f-30 | \$ 5,600 |
| 620/f-31A | Magnetic Tape Unit and Controller, 7-track, Dual Density (200/556 bpi), 25 ips, includes control for up to four (4) 7-track magnetic tape units | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 8,900 |
| 620/f-310A | Magnetic Tape Unit Slave, 7-track, Dual Density (200/556 bpi), 25 ips | 620/f-31A | \$ 5,200 |
| 620/f-31B | Magnetic Tape Unit and Controller, 7-track, Dual Density, (200/800 bpi), 25 ips, includes control for up to four (4) 7-track magnetic tape units | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 8,900 |
| 620/f-310B | Magnetic Tape Unit Slave, 7-track, Dual Density, (200/800 bpi), 25 ips | 620/f-31B | \$ 5,200 |
| 620/f-31C | Magnetic Tape Unit and Controller, 7-track, Dual Density (556/800 bpi), 25 ips, includes control for up to four (4) 7-track magnetic tape units | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 8,900 |
| 620/f-310C | Magnetic Tape Unit Slave, 7-track, Dual Density (556/800 bpi), 25 ips | 620/f-31C | \$ 5,200 |

ROTATING MEMORY

| | | | |
|-----------|--|--|----------|
| 620/f-38A | Disc Memory & Controller, fixed head, average access time 17 ms, transfer rate 73.3 KHz words, capacity 30K words, 16 tracks | 620/f-00X or 620/f-01X, 620/f-20, 620/f-95-5 | \$ 6,800 |
| 620/f-38B | Disc Memory & Controller, fixed head, average access time 17 ms, transfer rate 73.3 KHz words, capacity 61K words, 32 tracks | 620/f-00X or 620/f-01X, 620/f-20, 620/f-95-5 | \$ 7,600 |
| 620/f-38C | Disc Memory & Controller, fixed head, average access time 17 ms, transfer rate 73.3 KHz words, capacity 123K words, 64 tracks | 620/f-00X or 620/f-01X, 620/f-20, 620/f-95-5 | \$10,000 |
| 620/f-39 | Disc Memory & Controller, moving head, average access on track 20 ms, transfer rate 42 KHz words, capacity 585K words, IBM 2315 disc pack | 620/f-00X or 620/f-01X, 620/f-20, 620/f-95-5 | \$ 9,900 |
| 620/f-39A | Disc slave, moving head, average access on track 20 ms, transfer rate 42 KHz words, capacity 585K words, IBM 2315 disc pack | 620/f-39 | \$ 5,600 |
| 620/f-40 | Disc Memory and Controller, moving head, average access on track 12.5 ms, transfer rate 80K words per second, capacity 3.625 million 8-bit-bytes, IBM 1316 disc pack | 620/f-00X or 620/f-01X, 620/f-20, 620/f-95-5 | \$19,500 |
| 620/f-41 | Disc Memory and Controller, moving head, average access on track 12.5 ms, transfer rate 80K words per second, capacity 7.25 million 8 bit-bytes, IBM 1316 disc pack | 620/f-00X or 620/f-01X, 620/f-20, 620/f-95-5 | \$24,500 |
| 620/f-42 | Rotating Memory and Controller, fixed head, average access time 8.5 ms, transfer 30** words per second, capacity 131,072 words | 620/f-00X or 620/f-01X, 620/f-95-5 | \$21,500 |
| 620/i-42A | Rotating Memory and Controller, fixed head, average access time 8.5 ms, transfer rate 30K** words per second, capacity 131,072 words, expandable to 262,144 words | 620/f-00X or 620/f-01X, 620/f-95-5 | \$21,500 |
| 620/f-42B | Expansion Kit for 620/f-42A, increases capacity to 262,144 words, includes installation | 620/f-42A | \$ 6,000 |
| 620/f-43 | Rotating Memory and Controller, fixed head, average access time 8.5 ms, transfer rate 30K** words per second, capacity 262,144 words | 620/f-00X or 620/f-01X, 620/f-95-5 | \$27,000 |
| 620/f-44 | Drum Memory and Controller, average access time 8.7 ms, approx. transfer rate 106K words per second, 16 tracks, capacity 30K words | 620/f-00X or 620/f-01X, 620/f-95-5 | \$11,050 |
| 620/f-45 | Drum Memory and Controller, average access time 8.7 ms, approx. transfer rate 106K words per second, 32 tracks, capacity 61K words | 620/f-00X or 620/f-01X, 620/f-95-5 | \$12,050 |
| 620/f-46 | Drum Memory and Controller, average access time 8.7 ms, approx. transfer rate 106K words per second, 64 tracks, capacity 123K words | 620/f-00X or 620/f-01X, 620/f-95-5 | \$13,050 |
| 620/f-47 | Drum Memory and Controller, average access time 8.7 ms, approx. transfer rate 106K words per second, 128 tracks, capacity 246K words | 620/f-00X or 620/f-01X, 620/f-95-5 | \$15,200 |
| 620/f-48 | Drum Memory and Controller, average access time 8.7 ms, approx. transfer rate 106K words per second, 256 tracks, capacity 491K words | 620/f-00X or 620/f-01X, 620/f-95-5 | \$23,000 |
| 620/i-49 | Drum Memory and Controller, average access time 8.7 ms, approx. transfer rate 106K words per second, 512 tracks, capacity 983K words | 620/f-00X or 620/f-01X, 620/f-95-5 | \$30,500 |

**With the BIC 620/f-20 option the effective rate of disc transfer can be increased to 59K words per second

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|-------------------|---|------------------------------------|----------|
| PAPER TAPE | | | |
| 620/f-50 | Paper Tape Punch and Controller 60 cps | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 3,000 |
| 620/f-50A | Paper Tape Punch and Controller 120 cps | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 4,200 |
| 620/f-51 | Paper Tape Reader and Controller 300 cps | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 2,300 |
| 620/f-52 | Paper Tape System, includes time-share controller, 300 cps reader and 60 cps punch | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 4,800 |
| 620/f-52A | Paper Tape System, includes time-share controller, 300 cps reader and 120 cps punch | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 5,900 |
| 620/f-53 | Bidirectional paper tape spooler. Rewind speed is 200 inches/sec. average. 8 inch NAB reels | 620/f-51 or 620/f-52 | \$ 2,000 |

OTHER PERIPHERALS

| | | | |
|----------|--|------------------------------------|----------|
| 620/f-72 | Digital Plotter, 300 steps per second, 0.01" step size, other sizes are available | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 8,400 |
| 620/f-73 | Oscilloscope Display (Tektronix model RM 602) plots point to point, 12 bits bi-polar resolution, 0.1% accuracy, X-Y axis with Z axis blanking, includes dual DAC's analog ± 22 volt power supply, connectors and cabling | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 3,800 |
| 620/f-76 | Line Printer, 600 lpm, 132 columns, buffered | 620/f-00X or 620/f-01X, 620/f-95-5 | \$25,000 |

COMMUNICATIONS CONTROLLERS

| | | | |
|-----------|--|------------------------------------|----------|
| 620/f-60 | Communication and Terminal Controller (DCC 1). Provides multiplexer and control for up to sixteen (four 620/f-61's) 103 type modems | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 3,600 |
| 620/f-61 | Communication Line-Control Module. Provides interface between Communications Terminal Controller (620/f-60) and four 103 type modems | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 600 |
| 620/f-65 | Data Set Coupler Interface for 201 modem, single buffered, software sync recognition | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 2,000 |
| 620/f-65C | Data Set Coupler Interface for 201 Modem, Autosynch, double buffered, software sync recognition | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 2,000 |
| 620/f-66A | Data Set Coupler provides interface between 103 type modem and the 620/f programmed I/O | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 2,000 |
| 620/f-66B | Two 62-f-66A's mounted in one controller module | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 3,600 |

DIGITAL CONTROLLERS

| | | | |
|------------|---|------------------------------------|----------|
| 620/f-20 | Buffer Interlace Controller, Block Transfer Supervisor for automatic data transfers for up to 10 peripheral controllers | 620/f-00X or 620/f-01X, 620/i-95-5 | \$ 500 |
| 620/f-80 | Buffered I/O Controller, general purpose interface, 8 sense lines, 8 control pulses, 16 bit output register, 16 bit input register. One of 8 different pulse widths available (5-20, 20-73, 73-300 usec; .27-1.1, 1-4, 3.5-13, 12-50, 40-90 msec) | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 500 |
| 620/f-81 | Digital I/O Controller, 8 sense lines, 8 control pulses | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 400 |
| 620/f-83-1 | Relay Contact I/O Module, 16 mercury wetted contact outputs, 50 V A resistive, 3 A or 400 V maximum | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 1,200 |
| 620/f-83-2 | Relay Contact I/O Module 16 contact points, voltage levels, 12 V A resistive, 1/2 A or 200 V maximum | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 1,000 |
| 620/f-83-3 | Relay Contact I/O Module 16 mercury wetted contact outputs and 16 contact inputs, 50 V A resistive, 3 A or 400 V maximum | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 1,500 |

ANALOG CONTROLLERS

| | | | |
|------------|--|--|----------|
| 620/f-85 | Analog Input System ADC-12 bits resolution, S/H amplifier, 16 channel differential input multiplexer or 32 channel single ended (specify) and controller, $\pm 1/2$ LSB accuracy, ± 11 volts (differential) or ± 10 volts (single ended), includes analog power supply | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 4,500 |
| 620/f-85-1 | Additional 16 channel differential input multiplexer or 32 channel single ended (specify) switches (3 per 620/f-85) | 620/f-00X or 620/f-01X, 620/f-85, 620/f-95-5 | \$ 1,800 |
| 620/f-87 | Analog Output System Dual D-A Converter, 12 bit resolution, bi-polar, .1% accuracy | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 2,500 |

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|--|---|------------------------------------|--------------------|
| VARIAN 620/f ACCESSORIES AND SPARES | | | |
| 620/f-06-A | Teletype Controller Spare (for first TTY in the System), ASR 33/35 or KSR 35 | None | \$ 750 |
| 620/f-06-B | Teletype ASR 33 Spare (for first TTY in the System), without Controller | None | \$ 1,400 |
| 620/f-06-C | Teletype ASR 33 Spare (for first TTY in the System), 230 Volt, 50 Hz without Controller | None | \$ 1,550 |
| 620/f-06-D | Teletype ASR 33 (for second TTY and up to 6 additional TTY's in the System) and Controller, 60 Hz | 620/f-00X or 620/f-01X, 620/f-95-5 | \$ 2,400 |
| 620/f-07-A | Teletype KSR 35 Spare (for first TTY in the System), without Controller | None | \$ 2,600 |
| 620/f-07-B | Teletype KSR 35 Spare (for first TTY in the System), 230 Volt, 50 Hz, without Controller | None | \$ 2,900 |
| 620/f-07-C | Teletype KSR 35 (for second TTY and succeeding TTY's in the System) and Controller, 60 Hz | 620/f-00X or -01X, 620/f-95-5 | \$ 3,500 |
| 620/f-08-A | Teletype ASR 35 Spare (for first TTY in the System), without Controller | None | \$ 3,600 |
| 620/f-08-B | Teletype ASR 35 Spare (for first TTY in the System), 230 Volt, 50 Hz, without Controller | None | \$ 3,900 |
| 620/f-08-C | Teletype ASR 35 (for second TTY and succeeding TTY's in the System) and Controller, 60 Hz | 620/f-00X or -01X, 620/f-95-5 | \$ 5,200 |
| 620/f-90 | 19-inch Cabinet: 30 inches deep, 63-inch panel height, includes side panels, cooling unit and mounting of standard components | None | \$ 1,600 |
| 620/f-90-A | 19-inch Cabinet: 30 inches deep, 63 inches high, side panels, cooling unit with casters and mounting of standard components | None | \$ 1,750 |
| 620/f-92-0 | I/O Cable consisting of a cable of optional length (5' increments to 20') with 75 pin male connectors at each end and two female connectors and miscellaneous mounting hardware | None | \$ 200 +\$5/ft. |
| 620/f-92-1 | I/O Cable Adaptor - 620/f I/O connector to 620/i type connector | None | \$ 100 |
| 620/f-92-3 | 75 Pin Chassis Mount Connector Set - female connector pair only, with all necessary hardware for mounting, wiring, and keying. (Standard I/O bus.) | None | \$ 85 |
| 620/f-92-4 | 26 Pin Chassis Mount Connector Set - female connector only, with all necessary hardware for mounting, wiring, and keying (for interrupt cable) | None | \$ 50 |
| 620/f-92-5 | I/O Connector Tool Kit consisting of crimp tool, removal tool, and insertion tool | None | \$ 250 |
| 620/f-92-6 | Interrupt Cable consisting of a cable of optional length (10' to 20') with a 44 pin edge board connector, and 26 pin female connector and miscellaneous mounting hardware | None | \$ 150 |
| 620/f-92-7 | 620/f Extender Board for controller cards | None | \$ 120 |
| 620/f-92-8 | 44 pin Edge Board Connector and Hood Assembly | None | \$ 25 |
| 620/f-92-9 | Interrupt Cable consisting of cable of optional length (5' increments to 20') with 26 pin female connector only and mounting hardware | None | \$ 200 +\$5/ft. |
| 620/f-92-10 | DM 135-0, Multi-usage socket board | None | \$ 75 |
| 620/f-92-11 | DM 135-1, Multi-usage socket board kit consisting of a board, 54 individual 14 pin sockets, 6 individual pin sockets. (Sockets not mounted on board.) | None | \$ 165 |
| 620/f-92-12 | DM 135-2, Multi-usage socket board kit consisting of a board, 110 individual 14 pin sockets, 10 individual 16 pin sockets. (Sockets not mounted on board.) | None | \$ 230 |
| 620/f-92-13 | DM 135-3, Multi-usage socket board kit consisting of a board, 156 individual 14 pin sockets, 24 individual 16 pin sockets. (Sockets not mounted on board.) | None | \$ 320 |

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varian data machines / The Big Company in Small Computers
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